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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of
Inventor(s): Mills

Group Art Unit: 1745

Appln. No.: 09/501,621

Examiner: Langel

Filing Date: 02/02/2000

Att. Docket No.: 62-226-8AC4-D1

Title: DOPED THERMIONIC CATHODE AND METHOD OF MAKING THE DOPED
THERMIONIC CATHODE

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July 13, 2001

SUPPLEMENTAL AMENDMENT

Hon. Asst. Commissioner
of Patents and Trademarks
Washington, D.C. 20231

RECEIVED
JUL 17 2001
TC 1700

Sir:

Please amend the subject application as follows:

IN THE CLAIMS:

Please amend claims 65, 66, 148, 149 and 150 as follows:

65. A doped thermionic cathode according to claim 64, wherein said doubly negatively charged anion is selected from the group consisting of carbonate ions and sulfate ions.

B¹ 66. A doped thermionic cathode according to claim 64, wherein said singly negatively charged anion is selected from the group consisting of halogen ions, hydroxide ions, hydrogen carbonate ions, and nitrate ions.

B² 148. A method according to claim 147, wherein said increased binding energy hydrogen species is selected from the group consisting of H_n, H_n⁻, and H_n⁺, where n is an integer of 1 to 8, and n is greater than 1 when H has a positive charge.